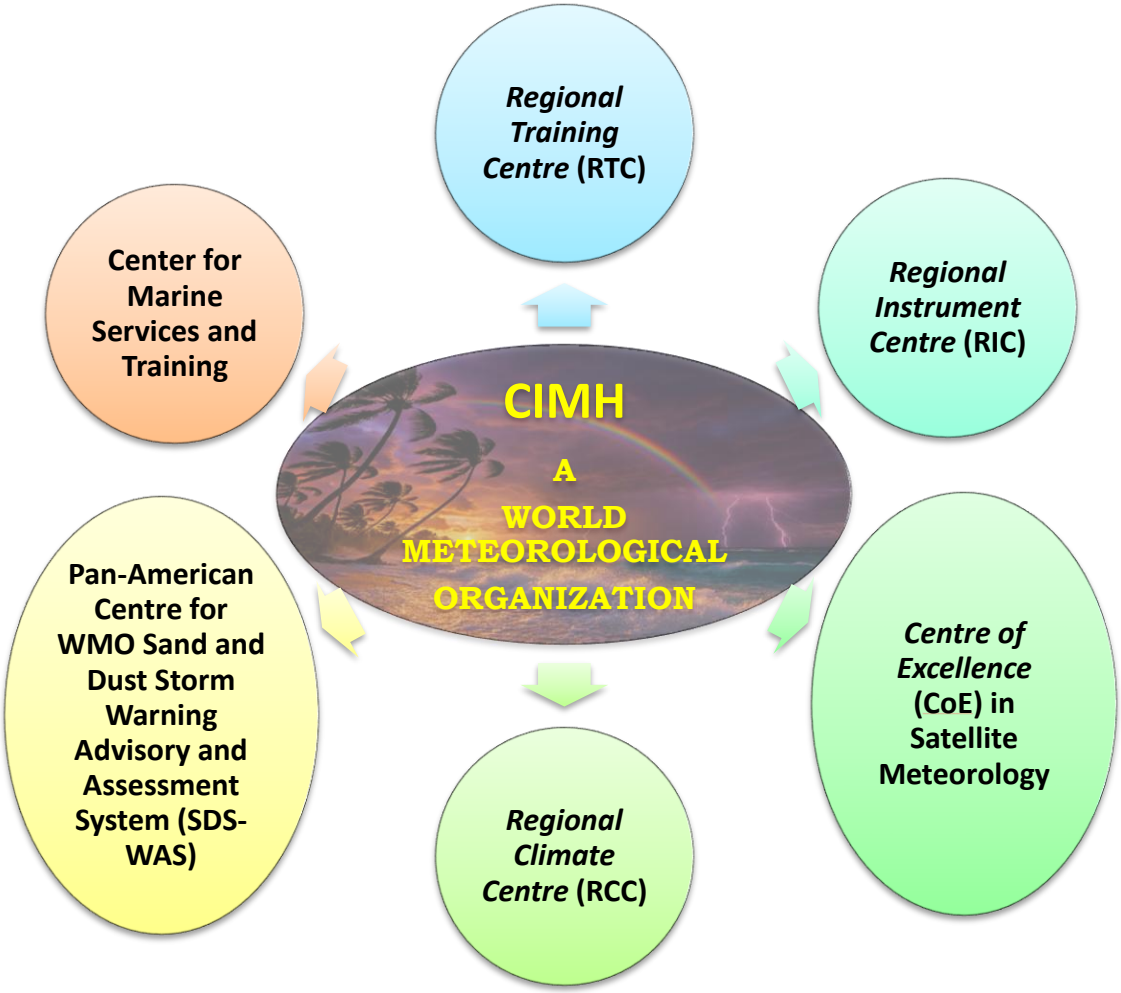
Caribbean Institute for Meteorology and Hydrology

A WORLD METEOROLOGICAL ORGANIZATION



Training Courses 2026

METEOROLOGY

ENTRY LEVEL METEOROLOGICAL TECHNICIANS' COURSE No. 96/26

Duration: 05th January – 29th May 2026 (Face-to-face)

This course for observers is intended to provide basic meteorological knowledge and practice in weather observing procedures and in the plotting of synoptic and aviation reports. On completion of the course, participants are expected to:

(i) Be familiar with the procedures and rules governing the recording and coding of different weather elements.

(ii) Accurately code, decode and plot synoptic and aviation reports, plot data on surface synoptic charts, upper air charts and thermodynamic diagrams.

(iii) Extract hourly and daily data and tabulate these data on climatological forms.

(iv) Determine when meteorological instruments are functioning properly.

Nominations close 30th November 2025

ENTRY LEVEL METEOROLOGICAL TECHNICIANS' COURSE No. 97/26

*Duration: 06th **July** – 27th November 2026 (Face-to-face)*

This course for observers is intended to provide basic meteorological knowledge and practice in weather observing procedures and in the plotting of synoptic and aviation reports. On completion of the course, participants are expected to:

(i) Be familiar with the procedures and rules governing the recording and coding of different weather elements.

(ii) Accurately code, decode and plot synoptic and aviation reports, plot data on surface synoptic charts, upper air charts and thermodynamic diagrams.

(iii) Extract hourly and daily data and tabulate these data on climatological forms.

(iv) Determine when meteorological instruments are functioning properly.

Nominations close 29th May 2026

MID LEVEL METEOROLOGICAL TECHNICIANS' COURSE No. 52/27

Not offered in 2026. THE NEXT MLMT 52/27 WILL BE MARCH 2027

Nominations close 08th January 2027

SENIOR LEVEL METEOROLOGICAL TECHNICIANS' COURSE No. 26/26

SLMT Bridging Course Duration: – *01st September to 05th December 2025* (ONLINE)

The Online Bridging course is a self-paced, asynchronous modular course, intended to help the SLMT candidates prepare for the SLMT course. The subject areas of the Bridging Course are Mathematics, Physics, and Introduction to Meteorology.

Graduates of this course are expected to:

(i) Understand Basic mathematics to the level of pre-calculus.

(ii) Understand Basic Secondary school-level Physics.

(iii) Review Generally Meteorology topics.

(iv) MUST PASS Pre-assessment entrance exam in December 2025

SLMT 26/26 *Duration: 05th January 2026 – 16th July 2027 (face-to-face)*

This course is designed to train personnel as meteorological forecasters. All major areas of meteorology are taught, but the emphasis is placed on tropical meteorology.

Graduates of this course are expected to:

(i) Know and understand the main physical and dynamic processes and phenomena associated with the weather at all scales.

(ii) Analyse and interpret synoptic weather charts and diagrams depicting current weather conditions.

(iii) Identify the physical and dynamic processes creating the weather conditions and be able to predict what conditions will evolve from the effects of these processes.

(iv) Interpret and use NWP products in the prediction of the weather.

(v) Interpret satellite imagery and use it in analysis and forecasting.

(vi) Prepare terminal and other forecasts for aviation and prepare documentation for use in flight planning and aircraft movement.

(vii) Know the weather conditions which are hazardous to the movement of aircraft and be able to predict these conditions.

Nominations close 28th July 2025

OPERATIONAL AERONAUTICAL FORECASTERS' COURSE No. 13/27

Duration: **14th May – 16th July 2027 (*Face-to-face*)**

This course is specifically designed for applicants with a B. Sc in Meteorology preparing to become operational forecasters. It provides theoretical aeronautical and operational procedures with an *emphasis on the practical and operational applications* of the theory to weather analysis and forecasting, particularly in the tropics. This course is designed to bring the applicants to a level that reflects the WMO first and second-level competencies for Aeronautical Meteorological Forecasters (AMFs).

Graduates of this course are expected to:

(ii) Analyze and interpret synoptic weather charts and diagrams depicting current weather conditions.

(iii) Identify the physical and dynamical processes creating the weather conditions and be able to predict what conditions will evolve from the effects of these processes

(iv) Interpret and use NWP products in the prediction of the weather

(v) Interpret satellite imagery and use these in analysis and forecasting

(vi) Prepare terminal and other forecasts for aviation and prepare documentation for use in flight planning and aircraft movement

(vii) Know the weather conditions which are hazardous to the movement of aircraft and be able to predict these conditions

(viii) Familiar with the relevant ICAO and WMO standards, recommended practices, and codes relating to aviation.

Nominations close 23rd April 2027

CIMH CONTINUING PROFESSIONAL DEVELOPMENT COURSE FOR AERONAUTICAL FORECASTERS No. 11/27

Duration: **24th September 2027 – 17th March 2028** (ONLINE)

This course is an online course set up for current operational forecasters. It provides additional training in the areas associated with aeronautical meteorology. The course will be retooled to support the maintenance of the recommended approved Competency Standards for Aviation Meteorological Forecasting (WMO Publication No. 49, Technical Regulations, Volume I).

The minimum entry requirement for the course is successful completion of the BIP-M requirements as defined in the WMO Publication No. 1083, *Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology*. Hence, participants must be a graduate of the Senior Level Meteorological Technicians' course and/or have a Bachelor's Degree in Meteorology.

Nominations close on 17th September 2027

HYDROLOGY

HYDROLOGICAL TECHNICIAN I COURSE No. HT 37/26

Duration: **7 September 2026 – 30 April 2027**

This course is designed for hydrological technicians in areas of ground water, surface water, water quality and the acquisition and analysis of data. Fieldwork is normally conducted outside of Barbados. The course will be delivered in a blended format consisting of a combination of online (Session 1) and in-person (Session 2) delivery.

Technicians completing this course successfully would be able to do the following:

(i) Work with and assist observer level technicians in the field of work but under guidance of experienced technicians and/or hydrologists.

(ii) Undertake primary screening of hydrological data; carry out simple analyses and be able to store and retrieve data.

(iii) Assist experienced technicians and/or hydrologists in research

DIPLOMA IN HYDROLOGY COURSE No. DipH 22/26

DipH 22/26 will not be offered in 2026

This course is designed to train personnel for the hydrological services in ground water, surface water and other related techniques and applications. Fieldwork is normally conducted outside of Barbados. The course is likely to be delivered in a blended format consisting of a combination of online and face-to-face delivery.

Technicians completing the Diploma course successfully are expected to:-

(i) Supervise hydrological technicians.

(ii) Carry out complete screening, analysis and dissemination of hydrological data for both surface and subsurface waters.

(iii) With guidance from the hydrologist, conduct fieldwork in hydrometry, hydrogeology, geophysics, and ground water extraction

(iv) Assist hydrologists in operations and research.

(v) Collaborate with agencies in practical aspects of surface and ground water utilization.

SHORT COURSES

METEOROLOGY FOR GEOGRAPHY EDUCATORS 04/25 (ONLINE)

Duration: **TBA**

This is a short course that is intended for CSEC/CAPE Level secondary school Geography teachers who wish to develop a greater understanding of the fundamentals of meteorology applicable to their CSEC/CAPE Geography syllabus. The goal of this course is for the teachers to be able to understand the principles governing climate and weather systems and to be able to explain basic meteorological processes so they can more effectively teach the concepts to secondary school students at the CSEC/CAPE level. It is also open to any other interested secondary school Geography teachers from all territories as it enhances their understanding of the fundamental meteorological concepts in all levels of the secondary school Geography syllabus.

Nominations close on TBA

INTRODUCTION TO GEOGRAPHICAL INFORMATION SYSTEMS (ONLINE)

Duration: **TBA**

The course introduces some of the key aspects of the GIS discipline that involve the manipulation and management of spatial data. In this course, participants will learn how to apply proprietary and open-source software packages (i.e., ArcGIS and QGIS) to perform basic input, output, analytical processing, and visualization operations on spatial datasets. The skills acquired in this course may be directly applied to the processing, analysis, and visualization of spatial datasets used for GIS applications in meteorology, hydrology, disaster management, and several other fields. The course is aimed at public entities that provide services with a focus on water resources management, meteorology, climate, disaster management, and other affiliated areas at the national, regional, or international level. It is expected that persons taking the course will have had limited or no exposure to GIS.

FLOOD HAZARD MODELLING AND MAPPING (ONLINE)

Duration: **TBA**

This course combines the previously offered "Hydrological Modelling with HEC-HMS" and "Flood Hazard Mapping" online courses. Participants will be introduced to rainfall-runoff modelling and learn how to (i) apply rainfall information to produce design flow hydrographs using the HEC-HMS software packages and (ii) prepare data for flood analysis and inundation modelling through an introduction to some basic functionalities within the HEC-RAS software package. It is recommended that persons complete the "Introduction to GIS (Online)" course before attempting the "Flood Hazard Modelling and Mapping" course.

INTRODUCTION TO ISOTOPE HYDROLOGY (ONLINE)

Duration: **TBA**

This course introduces isotope hydrology concepts and applications for water resources management. Participants will learn how water isotope signatures can be used to trace the origins of water to support the identification of water sources in addition to the application of radioactive isotopes for the estimation of groundwater age and recharge rates.

INTRODUCTION TO EARTH OBSERVATION APPLICATIONS (ONLINE)

Duration: **TBA**

The course introduces principles of earth observation methodologies associated with the use of Optical and Synthetic Aperture Radar (SAR) satellite sensors. Special focus will be given to exploration of the technical characteristics, advantages and disadvantages of these satellite sensor types and the data they provide. Participants will also learn how to use freely available open-source tools and online data portal resources to access and perform basic processing and analysis of satellite data for applications in environmental monitoring, land use/land cover change analysis, post disaster risk analysis and more. The course is aimed at public entities that provide services with a focus on water resources management, meteorology, climate, disaster management, and other affiliated areas at the national, regional, or international level. It is expected that persons taking the course will have limited or no exposure to remote sensing or the geospatial processing of satellite data.

UNIVERSITY OF THE WEST INDIES

B.Sc. DEGREE IN METEOROLOGY

This is a three-year programme offered by the University of the West Indies in association with the CIMH.

For more information please refer to the UWI Cave Hill Campus Faculty of Science and Technology (http://www.cavehill.uwi.edu/fst/prospective-students.aspx). Additional information and an application form can be obtained from:

The Assistant Registrar (Student Affairs)
University of the West Indies
Cave Hill
St. Michael
Barbados, W.I.

GENERAL INFORMATION

The minimum qualifications for all courses, with the exception of the B.Sc. programme, are 4 CXC Grade I – III (or GCE 'O' level equivalent) certificates including English Language, Mathematics and Physics. In addition, candidates for the Mid-Level Technician Course and Senior Level Technicians Course programme should also possess an Entry Level Technicians certificate.

The maximum number of students on each class is 15.

Requests for further information and applications should be sent to:

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